



40×53mm CUAS EFFECTOR

DEFEAT DRONES
WITHOUT A DIRECT HIT

40×53MM CUAS EFFECTOR

Direct-impact rounds miss small, agile sUAS more often than they hit. The Effector doesn't need a hit — its radar proximity fuze detects the target and detonates within a validated 3 m kill sphere, turning a near-miss into a kill.

“*Programmable Proximity-Fuzed 40×53mm Round •
Fields Through Existing MK47 / MK19 / RM MGL
Launchers — No Modification Required*”

UNCLASSIFIED // Distribution Statement B — Distribution to
authorized agencies only (Proprietary / Export Controlled)



100,000

units / month domestic capacity



INTERARMA
— ADVISORY —



APEXDEF
— GROUP LLC —

40×53mm CUAS EFFECTOR

SPECIFICATIONS

Caliber	40×53mm (high-velocity grenade)
Compatible systems	MK47, MK19, RM MGL — no modification
Sensor	Radar proximity · full radar return · 10° forward sector
Arm range / Fire range	5 m arm · 3 m fire
Frag coverage	360° spherical · 100% Pk within 3 m, all quadrants
Velocity	+50% vs. baseline (enhanced projectile)
Safe-and-arm	Mechanical escapement · 2× ETIs (redundant)
Min. arming distance	35 m (operator safety)
Electronic fuze	Programmable · proximity-only config now
Explosive Fill	5 g Comp A5

In-barrel induction: on development roadmap, not in current shipping configuration.

KEY DIFFERENTIATORS

Kills without a direct hit. Proximity detonation gives a far higher engagement probability against small, agile sUAS than rounds that must physically strike the target.

Sees threats Doppler-based fuzes miss. Processes the complete radar return, not micro-Doppler alone — catching fixed-wing and gliding/coasting drones that present weak Doppler signatures.

Drop-in for launchers you already own. Proximity-only configuration requires no platform modification and no in-barrel induction or communication — field it today.

Shrinks the target's escape window. A 50% velocity increase cuts the distance a drone can travel between firing and detonation, tightening intercept geometry against fast movers.

Built to MIL-STD safety standards. Dual redundant ETIs and a 35 m minimum arming distance protect the operator without slowing engagement.

Proprietary P(k) enhancements. Additional engineering raises kill-per-engagement probability beyond baseline proximity fuzing (details available under NDA).

ENGAGEMENT ENVELOPE • NOT TO SCALE



REQUEST THE TECHNICAL DATA PACKAGE : FULL BALLISTICS, TEST DATA, AND INTEGRATION SPECS — AVAILABLE TO QUALIFIED BUYERS UNDER NDA / ITAR AUTHORIZATION.

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